

TABLE 53

Federal obligations for experimental development performed at higher education institutions, by detailed field of R&D: FY 2021

(Dollars in thousands)

Field	2021
All fields	2,739,770
Computer and information sciences	58,620
Geosciences, atmospheric sciences, and ocean sciences	77,330
Atmospheric science and meteorology	29,076
Geological and earth sciences	9,092
Ocean sciences and marine sciences	27,940
Other geosciences, atmospheric sciences, and ocean sciences	11,222
Life sciences	884,162
Agricultural sciences	26,085
Biological and biomedical sciences	835,317
Health sciences	18,700
Natural resources and conservation	3,854
Other life sciences	207
Mathematics and statistics	5,440
Physical sciences	208,214
Astronomy and astrophysics	133,413
Chemistry	14,823
Materials science	317
Physics	53,907
Other physical sciences	5,753
Psychology	475
Biological aspects	0
Social aspects	0
Other psychological sciences	475
Social sciences	6,229
Anthropology	224
Economics	*
Political science and government	710
Sociology, demography, and population studies	*
Other social sciences	5,216
Engineering	1,116,901
Aerospace, aeronautical, and astronautical engineering	374,159
Bioengineering and biomedical engineering	5,300
Chemical engineering	13,950
Civil engineering	9,952
Electrical, electronics, and communications engineering	80,884
Industrial and manufacturing engineering	26,077
Mechanical engineering	17,724
Metallurgical and materials engineering	17,399
Other engineering	571,455
Other fields	382,398
Business management and business administration	4,984
Communication and communications technologies	22,117
Education research	66,595
Humanities	0
Law	0
Social work	0
Visual and performing arts	0
All other fields	288,703

* = amount greater than \$0 but less than \$50,000.

Note(s):

Because of rounding, detail may not add to total. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.